

ABSTRACT OF THE DISCLOSURE

A piston is arranged in a connecting body. A first diaphragm is provided at a lower portion of a shaft which is displaceable in the axial direction together with the piston. A second diaphragm is provided at an upper position spaced by a predetermined distance from the first diaphragm so that the second diaphragm is substantially in parallel to the first diaphragm. When the fluid permeates through the first diaphragm, the fluid is blocked by the second diaphragm. A buffering spring member is installed in a space which is defined between the second diaphragm and a first skirt section formed to extend radially outwardly from a main body section of the first diaphragm, and the pressing force exerted on the first diaphragm and the second diaphragm is reduced thereby.